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審査請求　未請求　（全　頁）

⑤4考案の名称　介護ベット

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⑦2考案者　佐藤　仁作　新潟県三島郡寺泊町大字吉1158番地
⑦1出願人　佐藤　仁作　新潟県三島郡寺泊町大字吉1158番地

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明　　細　　書

1．考案の名称

介護ベット

2．実用新案登録請求の範囲

電動機（1）等の回転を、ギヤー（3）等により緩慢にし、主軸（12）に取り付けられて居るベット床部（22）を、クランク（6）及び（11）等の連動により、緩やかに動かす、介護ベット。

3．考案の詳細な説明

（イ）産業上の利用分野

この考案は、長期療養者のベットに於ける、じゆくそう、の防止等に関するものである。

（ロ）従来の技術

従来じゆくそう防止のための、ベットの、工夫は、あまり無かつた。

（ハ）考案が解決しようとする問題点

この考案は、ベットの床部を、傾斜する事により、体圧を移動させるものである。

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（ニ）問題点を解決するための手段

この考案のベットを図面に基づいて説明すると、ベット床部（２２）は主軸（１２）により、回転出来るように支えられて居り、クランク（１１）は、ベット床部（２２）に固定され、クランク（６）は、クランク（１１）に、ピン（８）により互に摺動出来るよう止められ、クランク（６）に固定された軸及び握り（７）は、回転盤（５）に作られた、半円形の軸受け（９）と、バネ状軸押さえ（１０）により、移動出来るように、取付けられて居る、ブレーキ板（１４）は、多数の歯（１５）を有し、ピン（１３）により、クランク（１１）に、相い欠き、により、結ばれ、他方は、ブレーキケース（１６）の底部の車輪（１７）上を通つて居り、ブレーキ（１９）は、スイッチ押し及び握り、と一体となり、ブレーキケース（１６）に収り下部は、ブレーキ板の歯（１５）と（かみ）合わされて居り、スイッチ箱（２０）は、ブレーキ用支柱（１８）に取付けられ、その上部にブレーキ用電磁石（２１）が取付けられて居る

（ホ）作用

ブレーキ握り、を引き上げるとスイツチ（２０）は入となり、電磁石（２１）は、ブレーキ（１９）を引き付け、同時に、ブレーキは、切となるので、モーター（１）の回転は、逐次伝へられるので、ベツト床部は緩やかに、軸（７）の位置で定められる、角度、で左右に傾むくのである。

また回転盤（５）は、常に右廻りするので軸受け（９）及びバネ状軸押さえ（１０）の如き、受け方で、外づれることは無く、ブレーキ（１８）の操作により、任意の所で静止出来るのである。

（ヘ）考案の効果

体圧が徐々に変るので、うつ血、が防げ、タンや、セキ、が出る時、ベツトを傾むけ、顔を横にしやすく、衣服等の交換に便利であり、また揺りかご的効果がある。

４．図面の簡単な説明

第一図はベツト~~の横~~を最大に傾むけた時の横面図

第二図はベツトを最大に傾むけた時の縦面図

弐字訂正

第三図はベツトの横面図

第四図はベツトの縦面図

1は　モーター

2は　モーター軸

3は　ギヤーボツクス

4は　ギヤーと回転盤をつなぐ軸

5は　回転盤

6は　クランクA

7は　クランクAと回転盤をつなぐ軸及び握り

8は　クランクAとBをつなぐピン

9は　回転盤に作られた軸受け

10は　バネ状軸押さえ

11は　クランクB

12は　主軸

13は　クランクBとブレーキ板を結ぶピン

14は　ブレーキ板

15は　ブレーキ板の歯

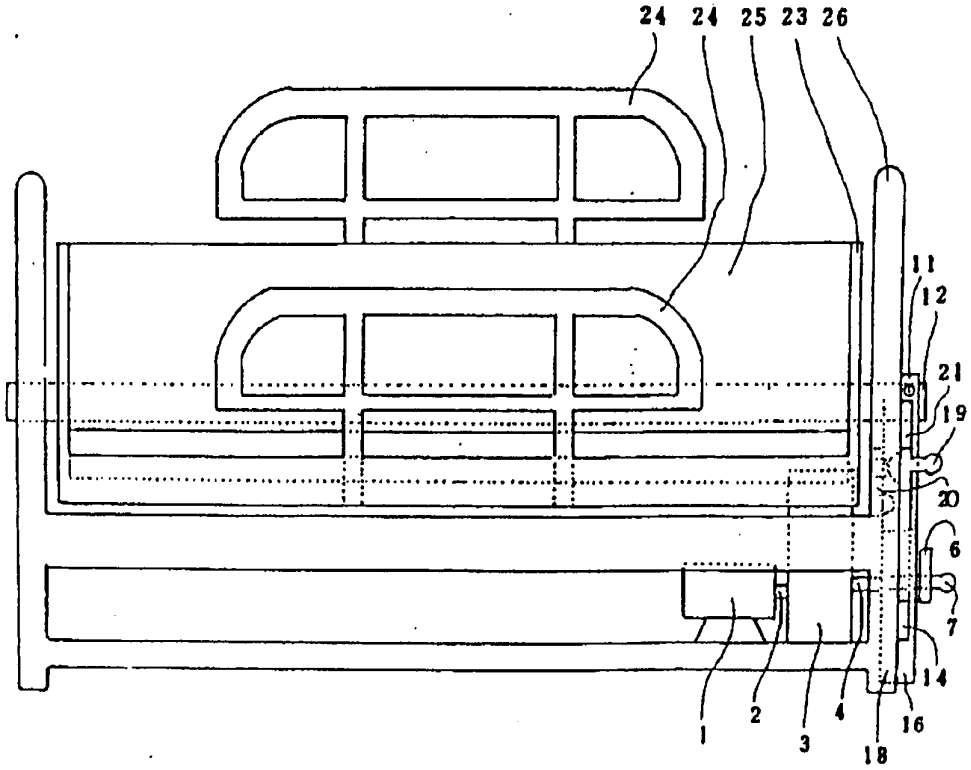
16は　ブレーキ用箱

17は　ブレーキ用車輪

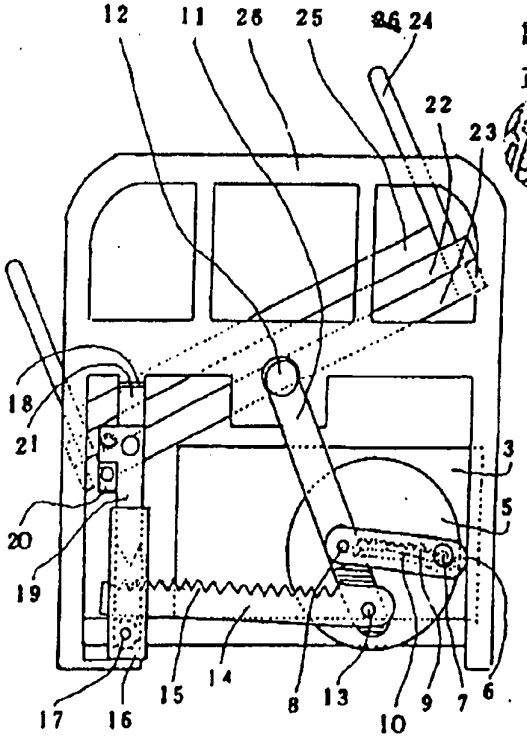
１８は　ブレーキ類取付け用支柱
１９は　ブレーキ類
２０は　スイッチ類
２１は　電磁石
２２は　ベット床部
２３は　ベット枠
２４は　ベットサイドレール
２５は　ベットクッション部
２６は　ベット本体。

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第 一 図



第 二 図

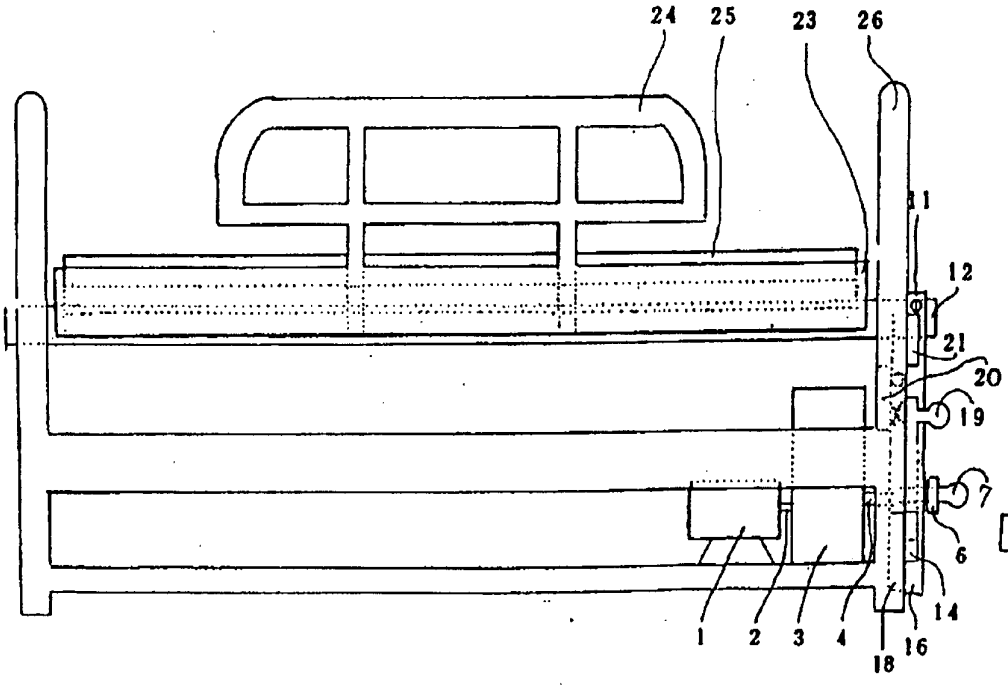


式字訂正

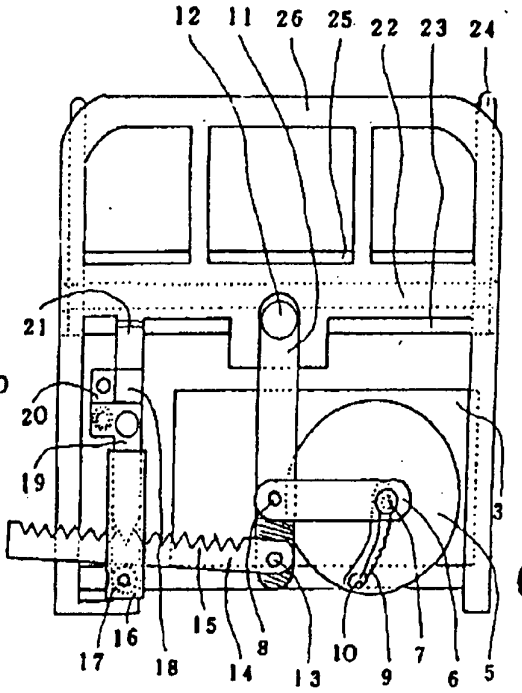
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第 三 図



第 四 図



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Fig.1

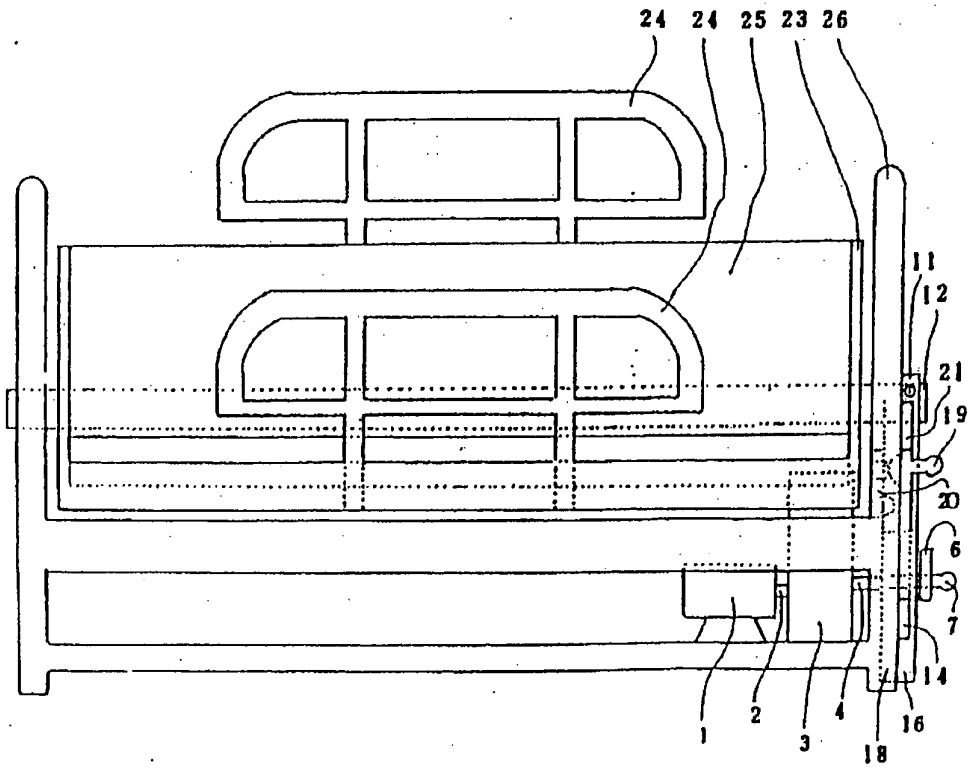
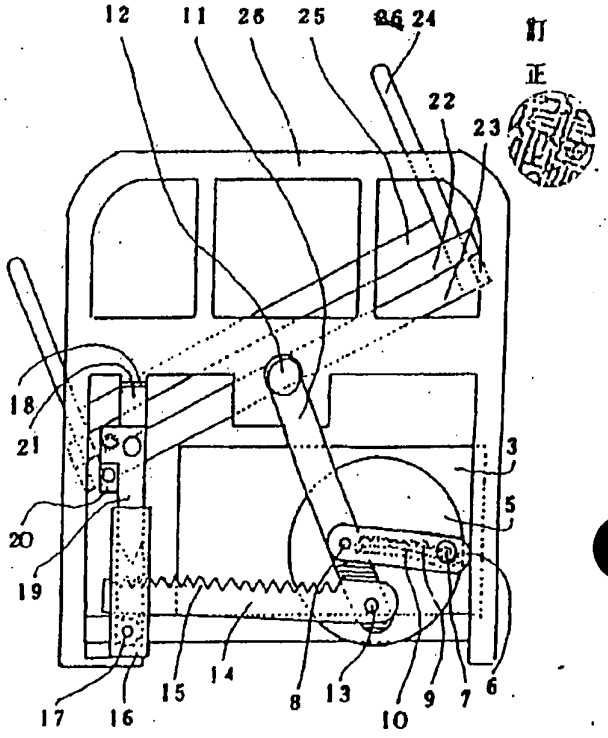


Fig.2



式字訂正

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Fig.3

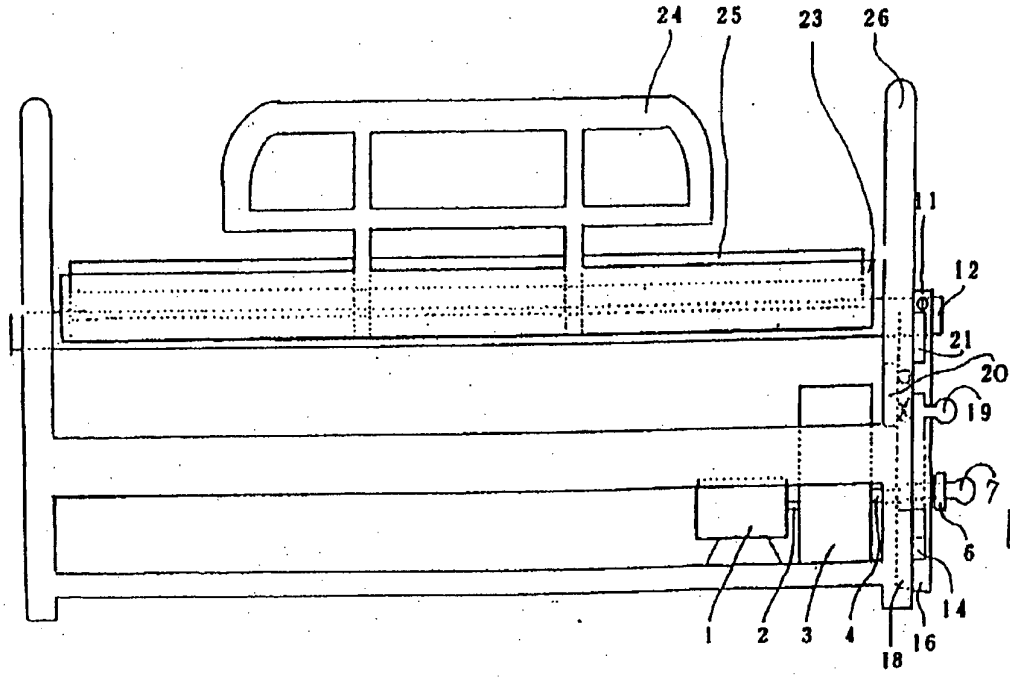
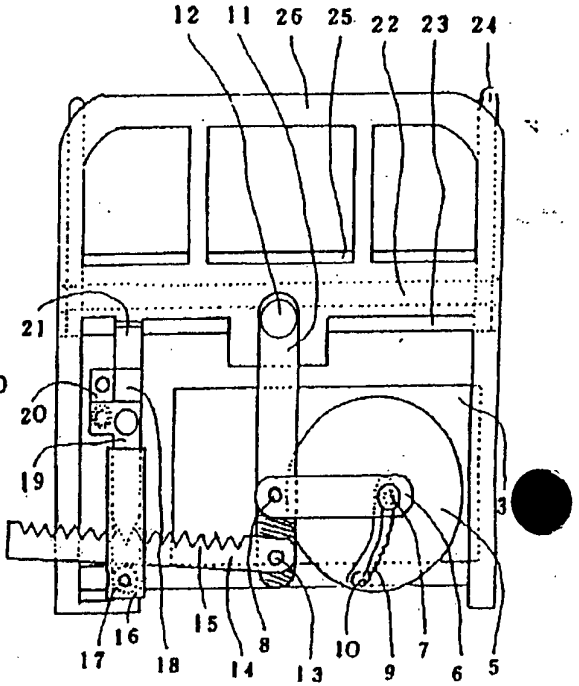


Fig.4



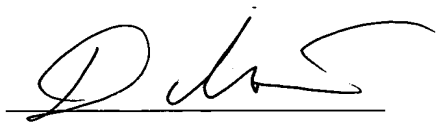
Utility Model Registration Applicant Nisaku SATO

10/506420
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VERIFICATION OF TRANSLATION

I, David Bonnitcha, translator at Nakajima & Matsumura Patent Attorneys Office, 6F Yodogawa 5-Bankan, 3-2-1 Toyosaki, Kita-ku, Osaka, 531-0072, Japan, hereby declare that I am conversant with the English and Japanese languages and am a competent translator thereof. I further declare that to the best of my knowledge and belief the following is a true and correct translation made by me of Japanese Unexamined Utility Model Application Publication No. S63-176434 filed on May 6, 1987.

Date: July 14, 2004



David Bonnitcha

10/506420
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Specification

1. **Title of Device**

Care Bed

2. **Claim of Utility Model**

A care bed that slows a rotation of an electric motor (1) and the like using a gear (3) and the like, and slowly moves a bed platform (22) by an interlocked movement of cranks (6) and (11) and the like.

~~4~~ 3. **Detailed Explanation of Device**

(a) Field of Industrial Application

This device relates to the prevention and the like of decubitus ulcers that occur with beds of long-term care recipients.

(b) Prior Art

The design of beds to prevent decubitus ulcers has hardly been addressed to date.

(c) Problem to be solved by Device

This device shifts body pressure by inclining the platform of the bed.

(d) Means of solving the Problem

The bed of this device is described here based on the drawings. A bed platform (22) is rotatably supported by a main shaft (12), a crank (11) is fixed to bed platform (22), a crank (~~1~~6) is fastened to crank (11) by a pin (8) so that both cranks can slide, and a shaft and handle (7) fixed to crank (6) are movably attached by a semi-circular shaft receiver (9) and a spring-loaded shaft holding (10) formed in a rotating board (5). A brake plate (14) has a plurality of teeth (15) and is fitted to crank (11) by a pin (13), thereby being joined to crank (11), while the other end travels over a wheel at the bottom of a brake casing (16).

A brake (19) is integrally formed with a switch holding and handle, and housed in brake casing (16), with a lower part thereof aligned with teeth (15) of the brake plate. A switch box (20) is attached to a brake stay (18), and a brake electromagnet (21) is attached to an upper part thereof.

(e) Operation

Since switch (20) is turned ON when the brake handle is raised and brake (19) is deactivated simultaneous to electromagnetic (21) attracting the brake, the rotation of motor (1) is conveyed sequentially, resulting in the bed platform slowly inclining laterally at an angle determined by the position of shaft (7). Also, rotating board (5), given that it always turns in a clockwise direction, can be brought to a standstill at an arbitrary place by the operation of brake (18), without becoming detached from where it is received, due to shaft receiver (9) and spring-loaded shaft holding (10).

(d) Effects of Device

Congestion is prevented because of body pressure being gradually changed, the head can easily be turned to the side in case of phlegm or coughing, dressing/undressing and the like is facilitated, and the bed also has a cradling effect.

4. **Brief Description of Drawings**

Fig.1 is a side view of ~~the side of~~ the bed when inclined at a maximum angle.

Fig.2 is a longitudinal view of the bed when inclined at a maximum angle.

Fig.3 is a side view of the bed.

Fig.4 is a longitudinal view of the bed.

1 Motor

2 Motor Shaft

3 Gear Box

4 Shaft connecting Gears and Rotating Board

5 Rotating Board

6 Crank A

7 Shaft and Lever connecting Crank A and Rotating Board

8 Pin connecting Cranks A and B

9 Shaft Receiver formed on Rotating Board

10 Spring-loaded Shaft Holding

11 Crank B

12 Main Shaft

13 Pin linking Crank B and Brake Plate

14 Brake Plate

15 Teeth of Brake Plate

16 Brake Box

17 Brake Wheel

18 Brake Assembly Attachment Stay

19 Brake Assembly

20 Switch Assembly

21 Electromagnet

22 Bed Platform

23 Bed Frame

24 Bed Side Rail

25 Bed Cushion

26 Bed.

Utility Model Registration Applicant Nisaku SATO

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(19) JP
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(21) Utility Model Application No. S63-176434
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(72) Creator of Device: Nisaku SATO
1 1 5 8 Oazayoshi, Teradomari-cho, Mishima-gun, Niigata Prefecture
(71) Applicant: Nisaku SATO
1 1 5 8 Oazayoshi, Teradomari-cho, Mishima-gun, Niigata Prefecture

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